

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

5. LEASE DESIGNATION AND SERIAL NO.

U-0344

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

CHAPITA WELLS UNIT

8. FARM OR LEASE NAME

9. WELL NO.

54-34

10. FIELD AND POOL, OR WILDCAT

~~CHAPITA~~ Mesa Verde11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

SEC. 34, T9S, R23E

12. COUNTY OR PARISH

UINTAH

13. STATE

UTAH

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

BELCO PETROLEUM CORPORATION

3. ADDRESS OF OPERATOR

P.O. BOX X, VERNAL, UTAH 84078

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

600' FWL & 1900' FSL (NW SW)

At proposed prod. zone

SAME

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

10. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

600'

16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

8200'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5299' Nat. G.L.

22. APPROX. DATE WORK WILL START*

7/80

23.

PROPOSED CASING AND CEMENTING PROGRAM

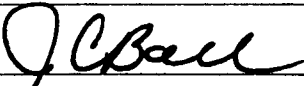
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	36#, K-55	200'	200 sx Circ. to Surf.
7 7/8"	4 1/2"	11.6#, N-80	8200'	1100 sx

1. SURFACE FORMATION: Uinta
2. EST. LOG TOPS: Green River 877', Wasatch 4212', Mesa Verde 7225'
3. Anticipate water throughout the Uinta. Possible oil & gas shows through the Green River and Wasatch, primary objective is gas in the Mesa Verde from 7225' to TD.
4. CASING DESIGN: New Casing as described above.
5. MINIMUM BOP: 10" series 900 hydraulic double gate BOP. Test to 1000 PSI prior to drilling surface plug & on each trip for bit.
6. MUD PROGRAM: A water based gel chemical mud weighted 10.5 ppg will be used to control the well.
7. AUX. EQUIP: 2" 3000 PSI choke manifold and kill line, kelly cock, stabbing valve and visual mud monitoring.
8. Will run DIL, FDC -CNL-GR logs. No cores or DST's are anticipated.
9. No abnormal pressures or problems are anticipated.
10. Operations will commence approx. 7/80 and end approx. 8/80

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED



TITLE DISTRICT ENGINEER

DATE 5-15-80

(This space for Federal or State office use)

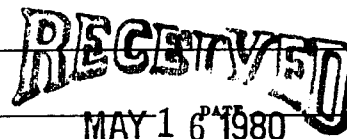
PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:


MAY 16 1980APPROVED BY DIVISION
OF OIL, GAS & MINING

DATE: 5-21-80

BY: 

*See Instructions On Reverse Side

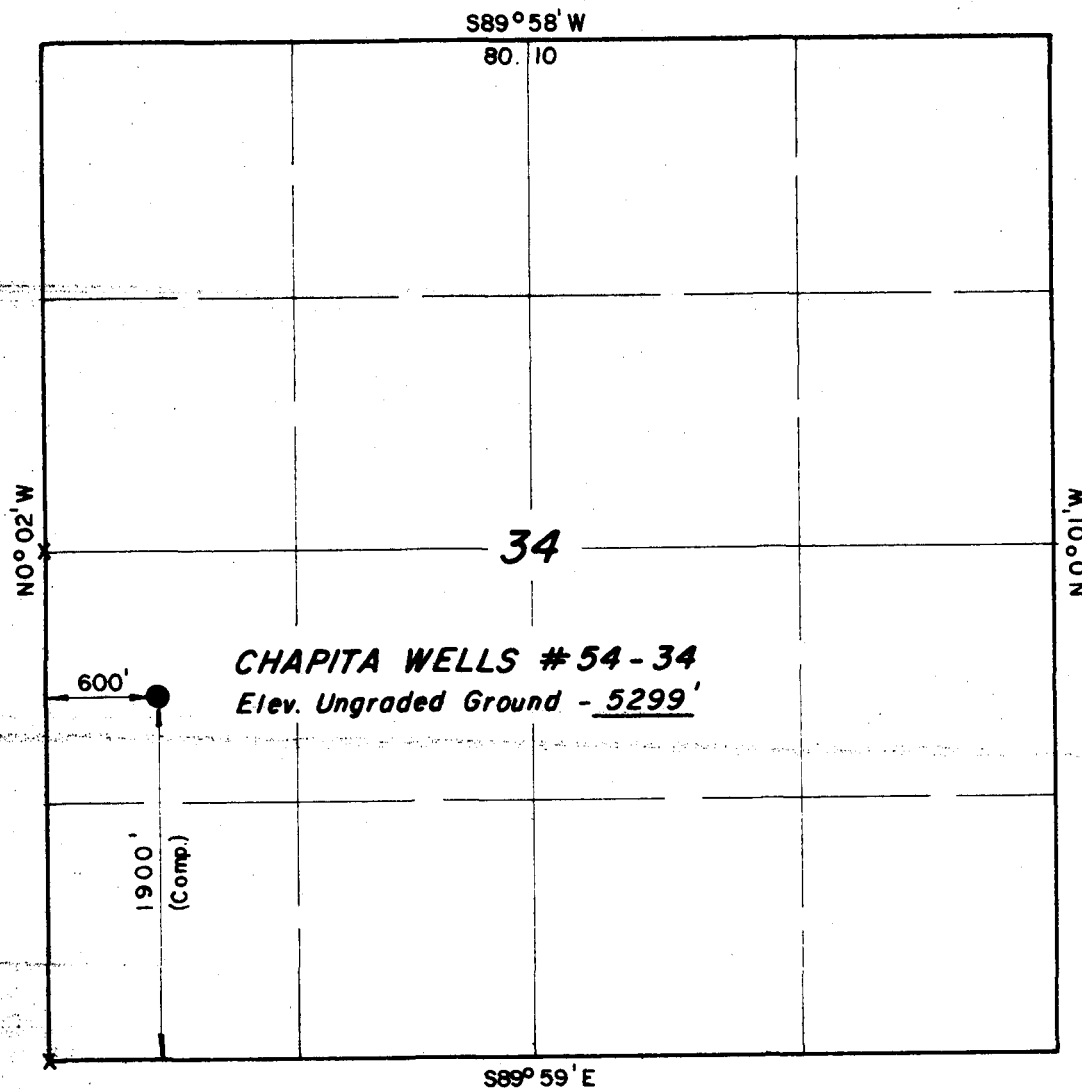
DIVISION OF
OIL, GAS & MINING

T 9 S , R 23 E , S.L.B. & M.

PROJECT

BELCO PETROLEUM CORP.

Well location, **CHAPITA WELLS # 54-34**, located as shown in the NW 1/4 SW 1/4 Section 34, T9S, R23E, S.L.B. & M. Uintah County, Utah.



X = Section Corners Located



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Laurence C. Kay
 REGISTERED LAND SURVEYOR
 REGISTRATION NO 3137
 STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
 P.O. BOX Q ~ 110 EAST - FIRST SOUTH
 VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	4/30/80
PARTY	RK DB RP	REFERENCES	GLO Plat
WEATHER	P - Cloudy / Warm	FILE	BELCO

**** FILE NOTATIONS ****

DATE: May 19, 1980
OPERATOR: Belco Petroleum Corporation
WELL NO: Chapita Wells Unit # 5434
Location: Sec. 34 T. 9S R. 23E County: Uintah

File Prepared: ☒

Entered on N.I.D: ☒

Card Indexed: ☒

Completion Sheet: ☒

API Number 43-047-30704

CHECKED BY:

Petroleum Engineer: W.S. Minder 5-21-80

Director: _____

Administrative Aide: OK on Unit boundary spacing - ltm

APPROVAL LETTER:

Bond Required: ☐

Survey Plat Required: ☐

Order No. _____

O.K. Rule C-3 ☐

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site

Lease Designation 3rd Unit

Plotted on Map ☒

Approval Letter Written

☒ ltm

Hot Line ☒

P.I. ☒

Unit approval

May 23, 1980

Belco Petroleum Corporation
P.O. Box X
Vernal, Utah 84078

Re: Well No. CWU #49-25, Sec. 25, T. 9S, R. 22E., Uintah County, Utah
Well No. CWU #53-33, Sec. 33, T. 9S, R. 23E., Uintah County, Utah
Well No. CWU #54-34, Sec. 34, T. 9S, R. 23E., Uintah County, Utah

Insofar as this office is concerned, approval to drill the above referred to gas wells is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon these wells, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer
Office: 533-5771
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API numbers assigned to these wells are CWU #49-25: 43-047-30702; CWU #53-33: 43-047-30703; CWU #54-34: 43-047-30704.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder
Petroleum Engineer

/b:tm

cc: USGS

VERNAL DISTRICT

LOCATION STATUS

RECEIVED
JUN 25 1980

DIVISION OF
OIL, GAS & MINING

NBU	48-29B	WOCU
CWU	43-11	WOCU
DUCK CREEK	4-17	LOCATION BUILT
	8-16GR	LOCATION BUILT
	9-16GR	LOCATION BUILT
	10-16GR	LOCATION BUILT
	11-16GR	LOCATION BUILT, SURFACE SET
	12-9 GR	APPROVED
	13-17GR	APPROVED
	17-16GR	APPROVED
	18-16GR	APPROVED
	19-16GR	APPROVED
	20-9 GR	APPROVED
	21-9 GR	APPROVED
	22-9 GR	PERMISSION TO STAKE REQUESTED 6-4-80
	23-16GR	PERMISSION TO STAKE REQUESTED 6-4-80
	24-17GR	PERMISSION TO STAKE REQUESTED 6-4-80
	26-8	PERMISSION TO STAKE REQUESTED 6-4-80
NATURAL DUCK	6-15GR	APPROVED
	7-15GR	APPROVED
	9-15GR	APPROVED
	14-15GR	APPROVED
STAGECOACH	16-26	LOCATION BUILT
	17-25	APPROVED
	19-33	APPROVED
	20-7	WO USGS APPROVAL, APD SENT 12-17-79, INSP.3-11-80
	21-8	WO USGS APPROVAL, APD SENT 12-17-79, INSP.2-12-80
CWU FEDERAL	1-4	APPROVED
	1-5	WO USGS APPROVAL, APD SENT 12-17-79, INSP.2-12-80
CHAPITA WELLS	42-13	LOCATION BUILT, SURFACE SET
	49-25	WO USGS APPROVAL, APD SENT 5-15-80
	50-32	LOCATION APPROVED, WO BLM ACCESS ROAD APPROVAL
	51-32	LOCATION APPROVED, WO BLM ACCESS ROAD APPROVAL
	52-33	WO USGS APPROVAL, APD SENT 5-15-80
	53-33	WO USGS APPROVAL, APD SENT 5-15-80
	54-34	WO USGS APPROVAL, APD SENT 5-15-80
	55-20	PERMISSION TO STAKE REQUESTED 6-5-80
	56-29	PERMISSION TO STAKE REQUESTED 6-5-80
	57-29	PERMISSION TO STAKE REQUESTED 6-5-80
	58-19	PERMISSION TO STAKE REQUESTED 6-5-80
UMMIT COUNTY	1-4	WO STATE APPROVAL, APD SENT 5-16-80

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**DUPLICATE**

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-0344 U-37943
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR BELCO PETROLEUM CORPORATION		7. UNIT AGREEMENT NAME CHAPITA WELLS UNIT
3. ADDRESS OF OPERATOR P.O. BOX X, VERNAL, UTAH 84078		8. FARM OR LEASE NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 575' FSL & 1943' FSL (NW SW) At proposed prod. zone SAME		9. WELL NO. 54-34
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*		10. FIELD AND POOL, OR WILDCAT CWU - Mesa Verde
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 600'		11. SEC., T., R. M., OR BLK. AND SURVEY OR AREA SEC. 34, T9S, R23E
16. NO. OF ACRES IN LEASE 640		12. COUNTY OR PARISH UINTAH
17. NO. OF ACRES ASSIGNED TO THIS WELL 320		13. STATE UTAH
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 8200'		20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5299' Nat. G.L.		22. APPROX. DATE 7/80 AND WILL START*

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	36#, K-55	200'	200 SX
7 7/8"	4 1/2"	11.6#, N-80	8200'	1100 SX

SET STAGE CEMENTER AT 4000'
CEMENT FROM 4000' TO SURFACE
AND FROM BOTTOM UP.

1. SURFACE FORMATION: Uinta
2. EST. LOG TOPS: Green River 877', Wasatch 4212', Mesa Verde 7225'
3. Anticipate water throughout the Uinta. Possible oil & gas shows through the Green River and Wasatch, primary objective is gas in the Mesa Verde from 7225' to TD.
4. CASING DESIGN: New Casing as described above.
5. MINIMUM BOP: 10" series 900 hydraulic double gate BOP. Test to 1000 PSI prior to drilling surface plug & on each trip for bit.
6. MUD PROGRAM: A water based gel chemical mud weighted 10.5 ppg will be used to control the well.
7. AUX. EQUIP: 2" 3000 PSI choke manifold and kill line, kelly cock, stabbing valve and visual mud monitoring.
8. Will run DIL, FDC -CNL-GR logs. No cores or DST's are anticipated.
9. No abnormal pressures or problems are anticipated.
10. Operations will commence approx. 7/80 and end approx. 8/80

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED JCBell TITLE DISTRICT ENGINEER DATE 5-15-80
(This space for Federal or State office use)PERMIT NO. WT Martin APPROVAL DATE SEP 16 1980
APPROVED BY WT Martin FOR E. W. GUYNN DISTRICT ENGINEER
CONDITIONS OF APPROVAL, IF ANY: CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

NOTICE OF APPROVAL

*See Instructions On Reverse Side

Production Facilities and Flowline NOT Approved

FLARING OR VENTING OF
GAS IS SUBJECT TO NTL 4-A
DATED 1/1/80

Ut. State O+G

Oil and Gas Drilling

EA #436-80

United States Department of the Interior
Geological Survey
2000 Administration Bldg.
1745 West 1700 South
Salt Lake City, Utah 84104

Usual Environmental Analysis

Date July 7 1980

Operator Belco Petroleum Corporation Project or Well Name and No.. 54-34

Location: 575' FWL & 1943' FSL Sec. 34 T.. 9S R.. 23E

County Uintah State Utah Field/Unit Chapita Wells

Lease No.: U-37943 Permit No.

Joint Field Inspection Date June 23 1980

Prepared By Greg Darlington

Field Inspection Participants, Titles and Organizations

Greg Darlington	USGS Vernal
Ron Rogers	BLM, Vernal
Bud Pease	Pease Construction
Rick Schatz	Belco Petroleum Corp.

Related Environmental Analyses and References.

Unit Resource Analysis, Bonanza Planning Unit, BLM, Vernal

7/28/80 aj

Admin Compl?
Prod 215 X 425
8' 100 X 200
9/10 mi X 30' new access (tail)
26/10 ac
Flow line & Prod Fac. incl (Pg 2)
Loc moved
Usable wtr to 575' - 20' h. 55'
→ Cont 9 Hopper Pg 6
1-2
Pg 7-3

DESCRIPTION OF PROPOSED ACTION

Proposed Action

1 Location State Utah
 County Uintah
 575' FWL 1943' FSL NW1/4 SW1/4
 Section 34 T 9S, R 23E SLB&M.

2. Surface Ownership Location Public
 Access Road. Public

Status of
 Reclamation Agreements

Adequately outlined in the APD and BLM stipulations letter.

3. Dates APD Filed: May 16, 1980.
 APD Technically Complete June 6, 1980.
 APD Administratively Complete. *May 16, 1980.*

4 Project Time Frame

Starting Date July 1980.

Duration of Drilling activities 30 days.

A period of 30 to 60 days is normally necessary to complete a well for production if hydrocarbons are discovered. If a dry hole is drilled, recontouring and reseeding would normally occur within one year, revegetation or restoration may take several years. If the well is a producer an indefinite period of time would occur between completion and rehabilitation.

5. Related actions of other federal or state agencies and Indian tribes
 None known.

6. Nearby pending actions which may affect or be affected by the proposed action

Belco 52-33 of EA 437-80 will be drilled prior to this well and the proposed pipeline hookup for Belco 54-34 would connect to the pipeline hookup for this well

7 Status of Variance Requests None known.

The following elements of the proposed action would/could result in environmental impacts

- 1 A drill pad 215' wide x 425' long including a reserve pit 100' x 200' would be constructed. Approximately .9 of a mile of existing trail would be reconstructed to 18' of driving surface from a maintained road. 2.6 acres of disturbed surface would be associated with the project. Maximum disturbed width of access road would be limited to 30'.
2. Drilling would be to a proposed depth of 8200 feet.
3. Waste disposal.
4. Traffic - Exhaust fumes and dust would be added to the atmosphere by engines on location and support vehicles.
5. Water requirements - If circulation is not lost air drilling would require no more than 2 000 barrels of water from local sources.
6. Completion.
7. Production.
8. Transportation of hydrocarbons - A 3" O. D. flowline with a minimum design of 1000 PSI would be constructed with a length of approximately 1900 feet to connect to the flow-line for proposed well 52-33. Belco plans to drill 52-33 prior to drilling this well. Maps further indicating the route involved are present in the APD.

Details of the proposed action are described in the Application for Permit to Drill.

The location was moved to avoid a drainage and reduce cuts and fills. This was a move of 50 feet toward stake 1 about 30 degrees west of north.

Environmental Considerations of the Proposed Action

Regional Setting/Topography The location is on a fairly flat area in the Chapita Wells Unit.

PARAMETER

A. Geology

1. Other Local Mineral Resources to be Protected Oil shale throughout the Green River formation. Mahogany zone is estimated at about 2100 feet.

Information Source. Mineral Evaluation Report

2 Hazards

a Land Stability Adequate for the proposed operation.

Information Source Field observation.

b. Subsidence Unlikely to be a significant problem or hazard at this location.

Information Source Field observation.

c Seismicity The location is in a area of moderate seismic risk.

Information Source Geologic Atlas of the Rocky Mountain Region 1972 "Earthquakes of Record and Interpreted Seismicity 1852-1969." Rocky Mountain Association of Geologists.

d. High Pressure Zones/Blowout Prevention No high pressure zones expected. Blowout prevention systems detailed in APD.

Information Source. Application for Permit to Drill.

B Soils

1 Soil Character The soil is a sandy clay with a considerable accumulation of shale and conglomeritic gravels and rock fragments.

Information Source. Field observation.

2. Erosion/Sedimentation Due to low rainfall and general type of soil and fairly flat topography few problems are expected

Information Source Field observation.

C. Air Quality Generally temporary impacts would be present during construction and drilling phases of the proposed project.

Information Source Field Observation.

D. Noise Levels Generally temporary impacts would be present during construction and drilling phases of the proposed project.

Information Source Field observation

E. Water Resources

1. Hydrologic Character

a. Surface Waters The location drains through non-perennial drainages to the White River which is about 4 miles to the south. Water will be hauled from the White River probably by Liquid Transport of Duchesne Utah.

Information Source Application for Permit to Drill

b. Ground Waters Useable water is possible throughout the Uintah Formation (surface to about 875 feet).

Information Source Mineral Evaluation Report.

2 Water Quality

a. Surface Waters Careful construction of the pad and proper drilling practice should keep effects to surface water quality of minimal impact.

Information Source Rick Schatz Belco representative.

b. Ground Waters 200 feet of surface casing will be set. Casing program is described further in the APD. The proposed stage cementing and circulation during drilling should insure adequate protection of the oil shale section and any ground water zones of useable water.

Information Source. APD and Oil Shale Geologist Ray Brady.

F. Flora and Fauna

1. Endangered and Threatened Species Determination

Based on the BLM comments received from Vernal District, BLM on July 3 1980 we determine that there would be no effect on endangered and threatened species and their critical habitat.

2. Flora Sparse sagebrush and native grasses.

Information Source Application for Permit to Drill.

3. Fauna Consists of birds reptiles small rodents.

Information Source Application for Permit to Drill.

G Land Uses

1 General Livestock grazing and mineral exploration

Information Source Application for Permit to Drill

2. Affected Floodplains and/or Wetlands None

Information Source. Field observation.

3 Roadless/Wilderness Area Not applicable.

Information Source Utah BLM Wilderness Inventory Map, August 1979.

H. Aesthetics: Some impacts similar to those of other nearby wells and pipelines would be involved.

Information Source: Field observation

I. Socioeconomics: The impact of this one well which could be considered almost as a development well is likely to be only minor. No extensive cumulative impacts are foreseen.

Information Source. Field observation

J. Cultural Resources Determination Based on the BLM comments received from Vernal BLM on July 3 1980 we determine that there would be no effect on cultural resources subject to suitable archaeological clearances conducted.

Information Source: BLM stipulations letter with related comments of Cory Bodman penned in.

K. Adequacy of Restoration Plans In the APD and BLM stipulations letter sufficient restoration plans are outlined.

Information Source: BLM stipulations letter and APD.

Alternatives to the Proposed Action

1. Disapproving the proposed action or no action - If the proposed action is denied, no action would occur, the existing environment would remain in its present state, the lessee/operator would not realize any return on investments and the public would be denied a potential energy source.

2. Approving the project with the recommended stipulations - Under federal oil and gas leasing provisions, the Geological Survey has a responsibility to approve mineral development if the environmental consequences are not too severe or irreversible. Permanent damage to the surface and subsurface would be prevented as much as possible under USGS and Surface Management Agency supervision. Environmental impacts would be significantly mitigated

Adverse Environmental Effects

1. If approved as proposed

- a. About 2.6 acres of vegetation would be removed increasing and accelerating erosion potential.
- b. Pollution of groundwater systems could occur with the introduction of drilling fluids into the aquifer(s). The potential for interaquifer leakage and lost circulation is ever-present depending on the casing program.
- c. Minor air pollution would be induced on a temporary basis due to exhaust emissions from rig engines and support traffic.
- d. The potential for fires leaks spills of gas and oil or water exists.
- e. During construction and drilling phases of the operation noise and dust levels would increase.
- f. Distractions from aesthetics during the lifetime of the project would exist.
- g. Erosion from the site would eventually be carried as sediment in the White River. The potential for pollution to White River would exist through leaks and spills.
- h. If hydrocarbons would be discovered and produced, further development of the area could be expected to occur which would result in the extraction of irreplaceable resource, and further negative environmental impacts. These impacts include the cumulative loss of wildlife habitat due to the areas necessary for roads pipelines, drillsites and transmission lines. These actions may disrupt wildlife social behavior and force habitat relocation over an extended period of time. In addition the cumulative effects of non-point erosion become substantial in a developing field primarily those located near perennial streams where siltation and sedimentation are critical to aquatic life cycles.

2. Conditional Approval:

- a. All adverse impacts described in section one above would occur.

Recommended Approval Conditions.

Drilling should be allowed provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator:

- 1. ~~See attached Lease Stipulations.~~
- 2. See attached BLM Stipulations.

3 Additional logs are requested for the identification and protection of oil shale minerals by the Minerals Evaluation and Mining Supervisor's Reports.

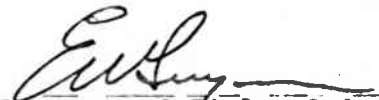
Controversial Issues and Conservation Division Response

None at present.

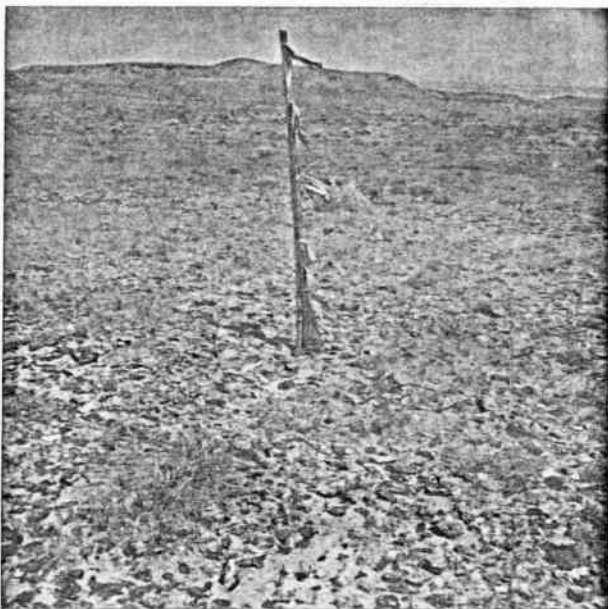
We have considered the proposed action in the preceding pages of this EA and find based on the analysis of environmental considerations provided therein no evidence to indicate that it will significantly (40 CFR 1508.27) impact the quality of the human environment.

Determination:

I determine that the proposed action (as modified by the recommended approval conditions) does not constitute a major Federal action significantly affecting the quality of the human environment in the sense of NEPA, Section 102 (2)(C).

 DISTRICT ENGINEER
Signature & Title of Approving Official

AUG 08 1980
Date



Belco 54-34 North View
Sec 34, T9S, R23E

6/23



United States Department of the Interior

GEOLOGICAL SURVEY
Conservation Division
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

Belco Petroleum Corp.
Well # 54-34
Section 34-9S-23E
Uintah County
U-37943

Mr. Peter Rutledge
Area Oil Shale Supervisor
Area Oil Shale Office
131 North Sixth, Suite 300
Grand Junction, Colorado 81501

RECEIVED

JUNE 1980
OFFICE OF
AREA OIL SHALE SUPERVISOR
U.S. G.S.

Dear Mr. Rutledge,

The Office of Oil and Gas Operations, Conservation Division, received the attached Application for Permit to Drill, Deepen, or Plug Back (Form 9-331C).

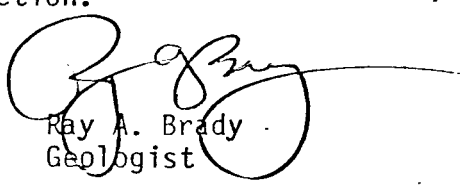
Please review this proposal for any conflict with any of the resources in the oil shale tracts and withdrawal areas. If needed, set forth the stipulations you determine necessary for adequate protection. Please use the following space for your response (if there is none, so state), together with date and initials of person responsible and return to the Office of Oil and Gas Operations.

U.S. Geological Survey
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

Belco 54-34
Sec. 34, T9S, R23E

June 24, 1980

The proposed stage cementing program and circulation to the surface should insure adequate protection of the Green River oil shale section and groundwater zones of the Uinta section.


Ray A. Brady
Geologist



ONE HUNDRED YEARS OF EARTH SCIENCE IN THE PUBLIC SERVICE

Oil Shale

Delio Tetro

Memorandum

To: District Oil and Gas Engineer, Mr. Edward Guynn

From: Mining, Supervisor, Mr. Jackson W. Moffitt

Subject: Application for Permit to Drill (form 9-331c) Federal oil and gas lease No. U-37943 Well No. 54-34

1. The location appears potentially valuable for:

- ☐ strip mining*
- ☒ underground mining** *oil shale*
- ☐ has no known potential.

2. The proposed area is

- ☐ under a Federal lease for _____ under the jurisdiction of this office.
- ☒ not under a Federal lease under the jurisdiction of this office.
- ☒ Please request the operator to furnish resistivity, density, Gamma-Ray, or other appropriate electric logs covering all formations containing potentially valuable minerals subject to the Mineral Leasing Act of 1920.

*If location has strip mining potential:

Surface casing should be set to at least 50 feet below the lowest strip minable zone at _____ and cemented to surface. Upon abandonment, a 300-foot cement plug should be set immediately below the base of the minable zone.

**If location has underground mining potential:

The minable zones should be isolated with cement from a point 100 feet below the formation to 100 feet above the formation. Water-bearing horizons should be cemented in like manner. Except for salines or water-bearing horizons with potential for mixing aquifers, a depth of 4,000 feet has been deemed the lowest limit for cementing.

Signed *Allen J. Vance*

FROM: : DISTRICT GEOLOGIST ME, SALT LAKE CITY, UTAH

TO : DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-37943

OPERATOR: Belco Petroleum Corp.

WELL NO. 54-34

LOCATION: SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 34, T. 9S., R. 23E., SLM

Uintah County, Utah

1. Stratigraphy:

Uintah: surface
Green River 875'
Wasatch 4210'
TD 8200'

2. Fresh Water:

Useable water possible throughout Uintah (to 875').

3. Leasable Minerals:

Oil Shale throughout Green River.
Mahogany zone at 2100'.

4. Additional Logs Needed:

Run suite throughout Green River for identification
& protection of Oil Shale.

5. Potential Geologic Hazards:

Possible loss of circulation in leached zones below
rich oil shale beds.

6. References and Remarks:

Cashion Mahogany structure map

Signature: Gregory W. Wood

Date: 6-13-80



Greg Hartington
United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Vernal District Office
170 South 500 East
Vernal, Utah 84078

IN REPLY REFER TO

T & R
U-802

June 30, 1980

Ed Guynn, District Engineer;
USGS, Conservation Division
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

Re: Belco Petroleum
Corporation
Well #52-33 Lease #U-0336
Section 33, T9S, R23E;
Well #53-33 Lease #U-0336
Section 33, T9S, R23E;
✓ Well #54-34 Lease #U-0344-B
Section 34, T9S, R23E;
Well #49-25 Lease #U-0285-A
Section 25, T9S, R22E;
Uintah County, Utah

Dear Mr. Guynn:

A joint field examination was made on June 23, 1980, of the above referenced well site locations and proposed access roads. We feel that the surface use and operating plans are adequate with the following stipulations:

1. Construction and maintenance of roads, rehabilitation of disturbed areas, and construction of pipeline routes, shall be in accordance with surface use standards as set forth in the brochure, "Surface Operating Standards for Oil and Gas Exploration and Development."
2. Traveling off access road rights-of-way will not be allowed. The maximum width of access roads (both existing and planned) will be 30 feet total disturbed area, except where backslope and fills require additional area. Turn-outs will not be required.
3. Topsoil will be stockpiled as addressed in the applicant's 13 Point Plan. The BLM recommends that the top six (6) to eight (8) inches of soil materials be stockpiled at the sites.



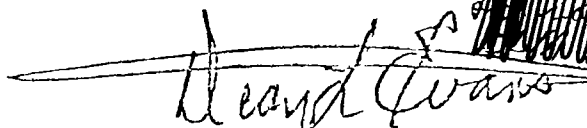
4. The BLM must be contacted at least 24 hours prior to any construction activities.
5. The BLM will be contacted at least 24 hours prior to any rehabilitation activities. The operator may be informed of any additional needed seeding and restoration requirements.
6. Burn pits will not be constructed. There will be no burning or burying of trash or garbage at the well sites. Refuse must be contained and hauled to an approved disposal site.
7. A wire mesh sheep fence will be used around the reserve pits. At least two strands of barbed wire will top this fence.
8. Well ~~#54-34~~ ^{site was} will be moved 50 feet to the north-northwest.
9. Reserve pits will have at least half their depths below the natural ground surface. The reserve pit for well #49-25 may not exceed 200 feet X 65 feet in size.

An archaeological study has not been received by this office. BLM approval cannot be given until the sites have received a cultural clearance.

The proposed activities do not jeopardize listed, threatened, or endangered flora, fauna or their habitats.

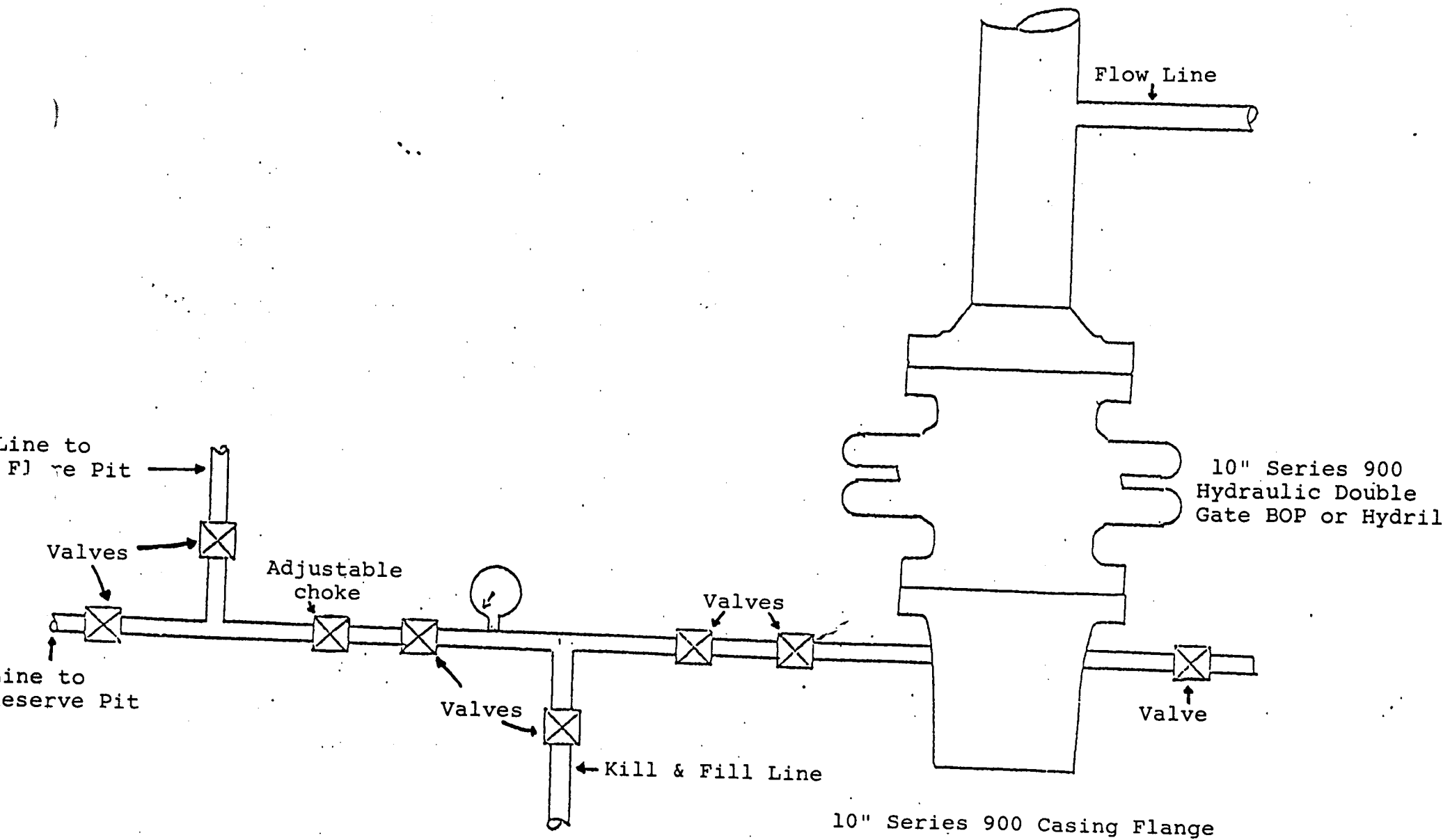
The BLM representative will be Ron Rogers (789-1362).

Sincerely,


Dean L. Evans
Area Manager
Bookcliffs Resource Area

[Handwritten notes and signatures in right margin: "C.B. 3 July 80" and "C.B. 3 July 80"]

cc: USGS, Vernal
USGS, Salt Lake City



13 POINT SURFACE USE AND
OPERATING PLAN

WELL NAME AND

LOCATION: CHAPITA WELLS # 54-34
SEC. 34, T9S, R23E
600' FWL & 1900' FSL (NW SW)
UINTAH COUNTY, UTAH

1. EXISTING ROADS:

- A. Proposed wellsite: See attached Survey Plat.
- B. Route and distance from locatable reference: See attached Map # B.
Existing road colored Blue. This location is approximately 20 miles East Southeast of Ouray, Utah.
- C. Access Road: See attached Map # B. Access road to be upgraded or newly constructed is colored Yellow.
- D. Not applicable.
- E. See attached Map # B.
- F. If production is obtained, road will be improved to the standards of a permanent road and maintained in a passable condition.

2. PLANNED ACCESS ROADS:

- A. Width: Total disturbed area will be a maximum of 40' except where necessitated by fills or backslopes.
- B. Maximum grade: 4%
- C. Turnouts: No turnouts will be required.
- D. Drainage design: Roads will be crowned with drainage ditches where required.
- E. Location of culverts and major cuts or fills: Not Applicable
- F. Surfacing material: All roads will be dirt surfaced.
- G. Gates, cattleguards or fence cuts: Not applicable.
- H. All new or upgraded roads have been centerlined staked.

3. LOCATION OF EXISTING WELLS: See attached Map # B.

4. LOCATION OF EXISTING OR PROPOSED PRODUCTION FACILITIES:

- A. The only existing production facilities which are owned or controlled by Belco Petroleum Corporation within one mile of this location are gas production units and tanks, if applicable. These facilities are located on the location pad of the existing Belco wells.
- B. Proposed facilities:
 - 1. All facilities except the the sales line will be located on the location pad. See attached diagram "A".
 - 2. Dimensions: See attached diagram "A".
 - 3. Construction methods & materials: Proposed flowline is to be 3" OD and have a minimum design of 1000 PSI. Actual working pressure will be no more than 500 PSI when in operation. All lines will be laid above ground with little or no disturbance to the natural contour and vegetation. Large scale map showing exact route of lines is attached, Map "C". Approximate length of lines are shown on the map. No corrosion problems have been encountered previously. We expect no problems of this nature in regards to Chapita Wells # 54-34.
 - 4. The production facilities are enclosed package units. Any pits will be fenced and overhead flagged as necessary.
- C. Plan for rehabilitation of disturbed area: Stockpiled topsoil will be spread over any area not required for production operations of the well. At the time production operations cease, the entire area and road will be returned as near as possible to it's original condition and reseeded in accordance with specifications.

5. LOCATION AND TYPE OF WATER SUPPLY:

- A. Water for this operation will be obtained from the White River.
- B. Water will be transported to the location by truck. Water Hauler will be Liquid Transport of Duchesne, Utah. PSC #1969.
- C. No water well is to be drilled on this lease at this time.

6. SOURCE OF CONSTRUCTION MATERIALS:

- A. All materials will be obtained from the access road and location.
- B. All lands involved are owned or controlled by the BLM.
- C. All materials will be obtained from the road and location, and will be used on the same.
- D. See attached Map # B.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. All cuttings, drilling fluids and produced fluids will be contained in the reserve pit.
- B. A chemical toilet will be available on the location.
- C. All trash and foreign wastes will be collected in a trash cage and removed from the location at the completion of operations.
- D. The location will be properly cleaned at the end of drilling and at the end of completion operations.

8. ANCILLARY FACILITIES: No camps or airstrips are planned.9. WELLSITE LAYOUT:

- A.B.C. See attached Location layout.
- D. Pits will be lined to conserve water and will be fenced on three sides at the onset of drilling operation. Pit will be fenced on the fourth side at the completion of operations.

10. PLAN FOR RESTORATION OF SURFACE:

- A. Area will be backfilled and contoured as near as possible to it's original condition. All waste materials will be removed, burned or buried.
- B. All rehabilitation and revegetation will take place in accordance with the BLM.
- C. At the time of rig release, the pits will be completely fenced until they have dried sufficiently to allow backfilling.
- D. Any oil on pits will be removed or overhead flagged for the protection of livestock and wildlife.
- E. Location will be cleaned as soon as operations cease. All dirt work will commence as soon as pit has dried sufficiently for backfilling. Reseeding will take place within one year of completion of operations.

11. OTHER INFORMATION:

- A. Topography, etc: This location is in a relatively flat area mostly desert terrain. Vegetation consists of sparse sagebrush and native grasses. Wildlife consists of birds, reptiles and small rodents.
- B. Livestock grazing and mineral exploration are the only surface use activities in the area. All lands involved with this location are owned or controlled by the BLM.
- C. There is no water in the immediate vicinity of this location. No occupied dwellings or known archeological or cultural sites are in the the area of this location.

- 2. Belco Petroleum Corporation's representative for this operation will be Mr. John A. Maxfield, P.O. Box X, Vernal, Utah 84078, telephone number 1-801-789-0790.

13. CERTIFICATION:

I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; that the work associated with the operations proposed herein will be performed by Belco Petroleum Corporation, it's contractors and sub-contractors in conformity with this Plan and the terms and conditions under which it is approved.



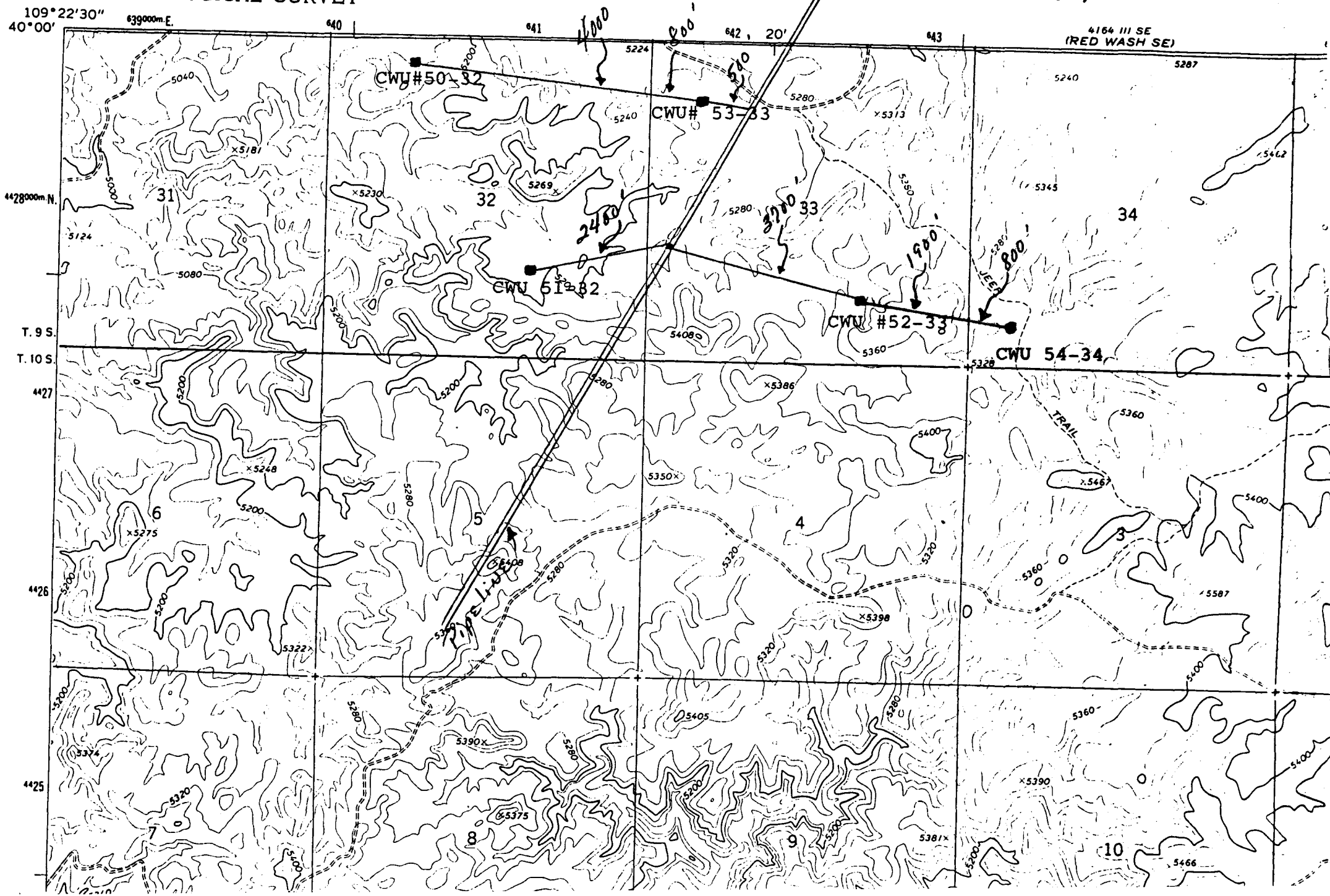
Attachments

xc: USGS
STATE OF UTAH
Houston
Denver
file (2)

4164 III SW
(RED WASH SW)

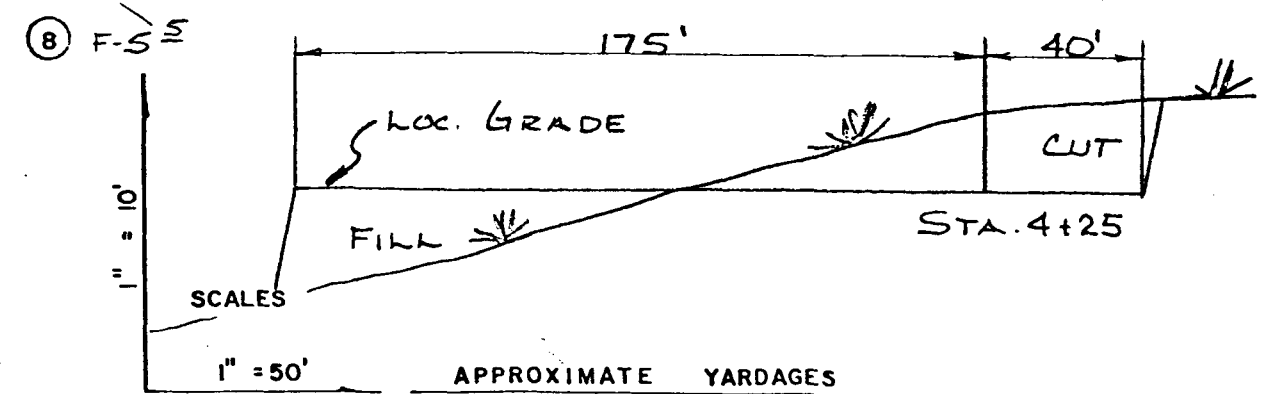
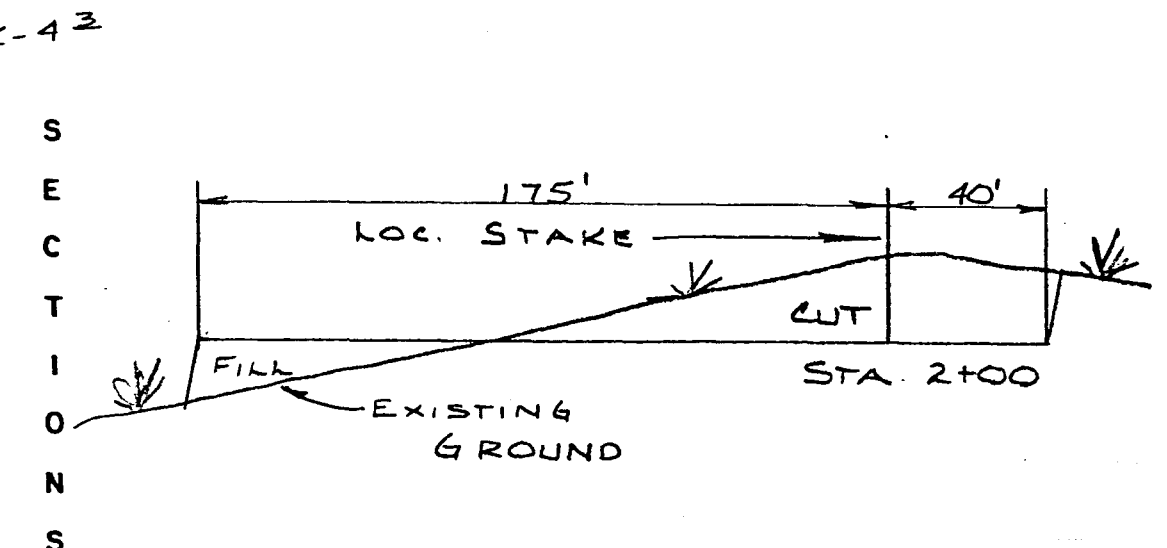
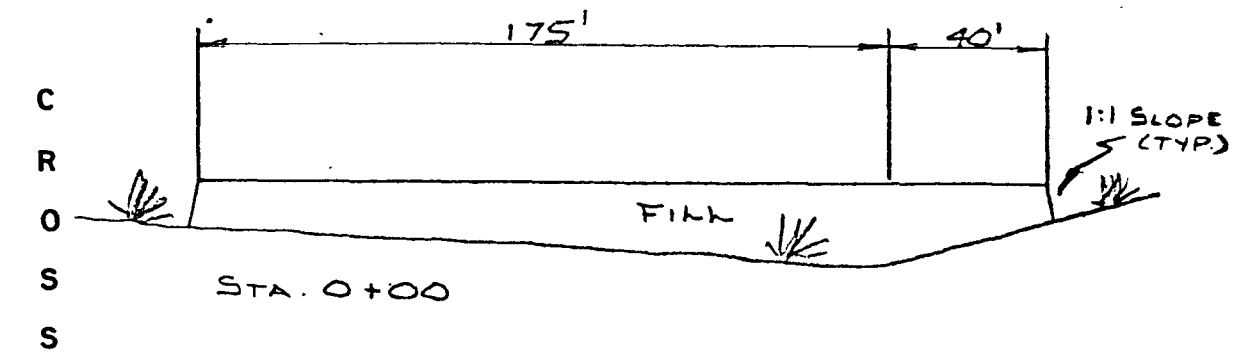
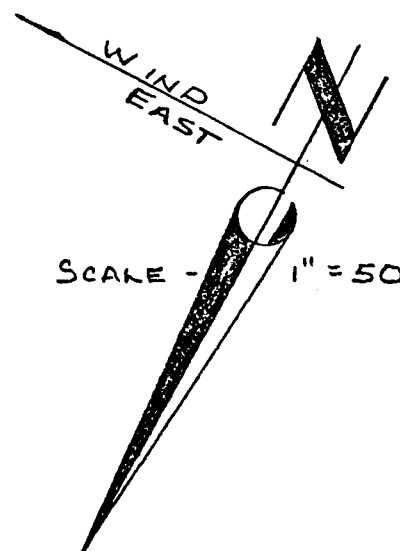
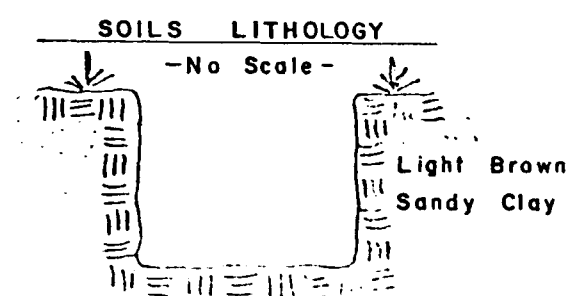
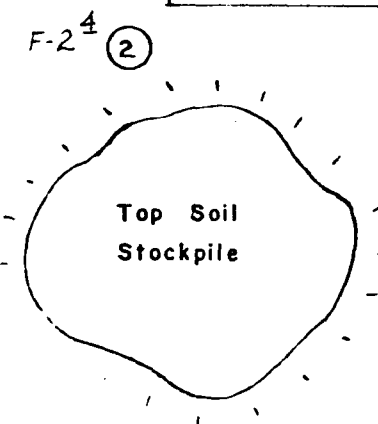
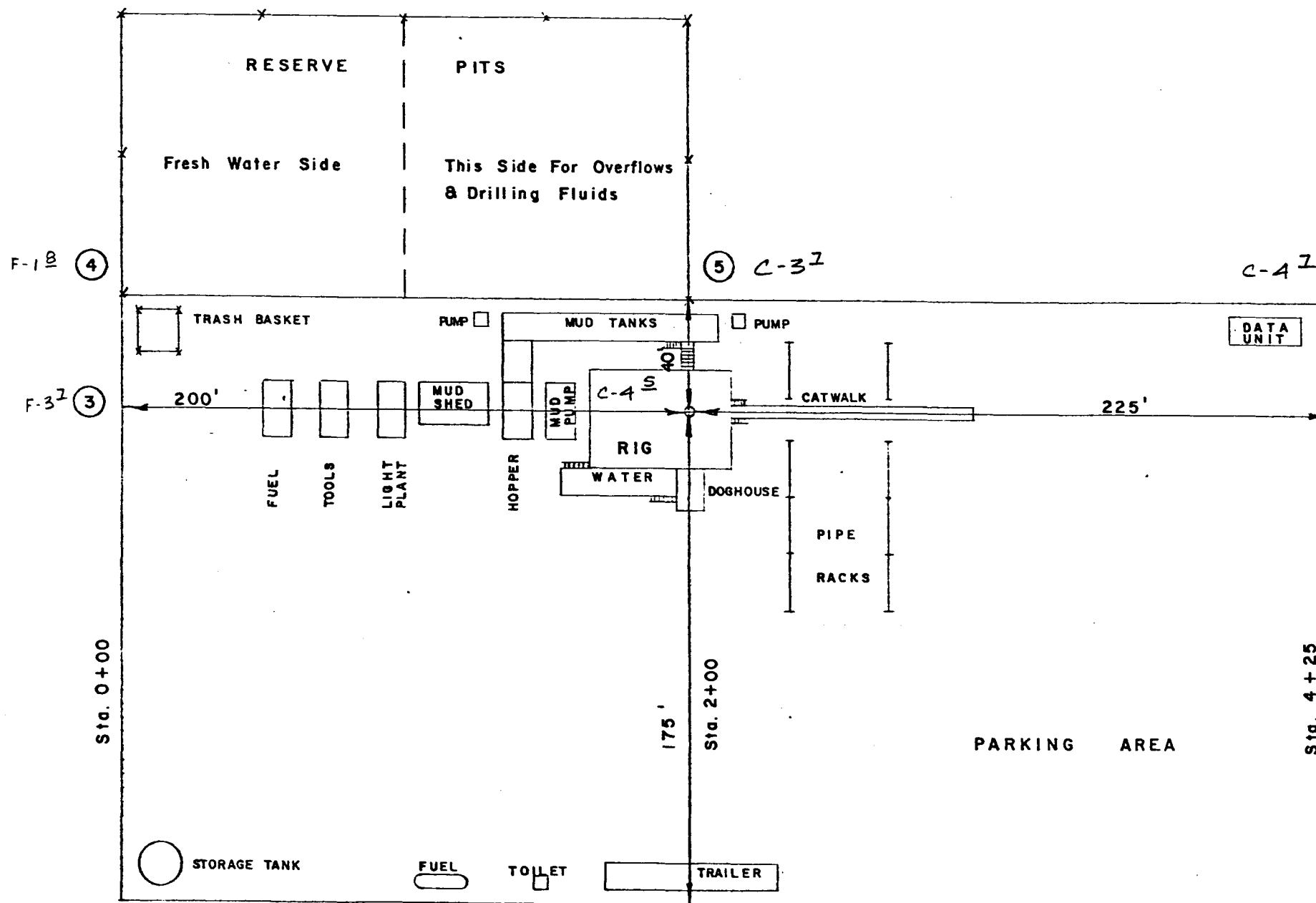
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Pipeline
Connections
Map "C"



BELCO PETROLEUM CORP.

CHAPITA WELLS # 54-34



Cubic Yards Cut - 4,687

Cubic Yards Fill - 4,453

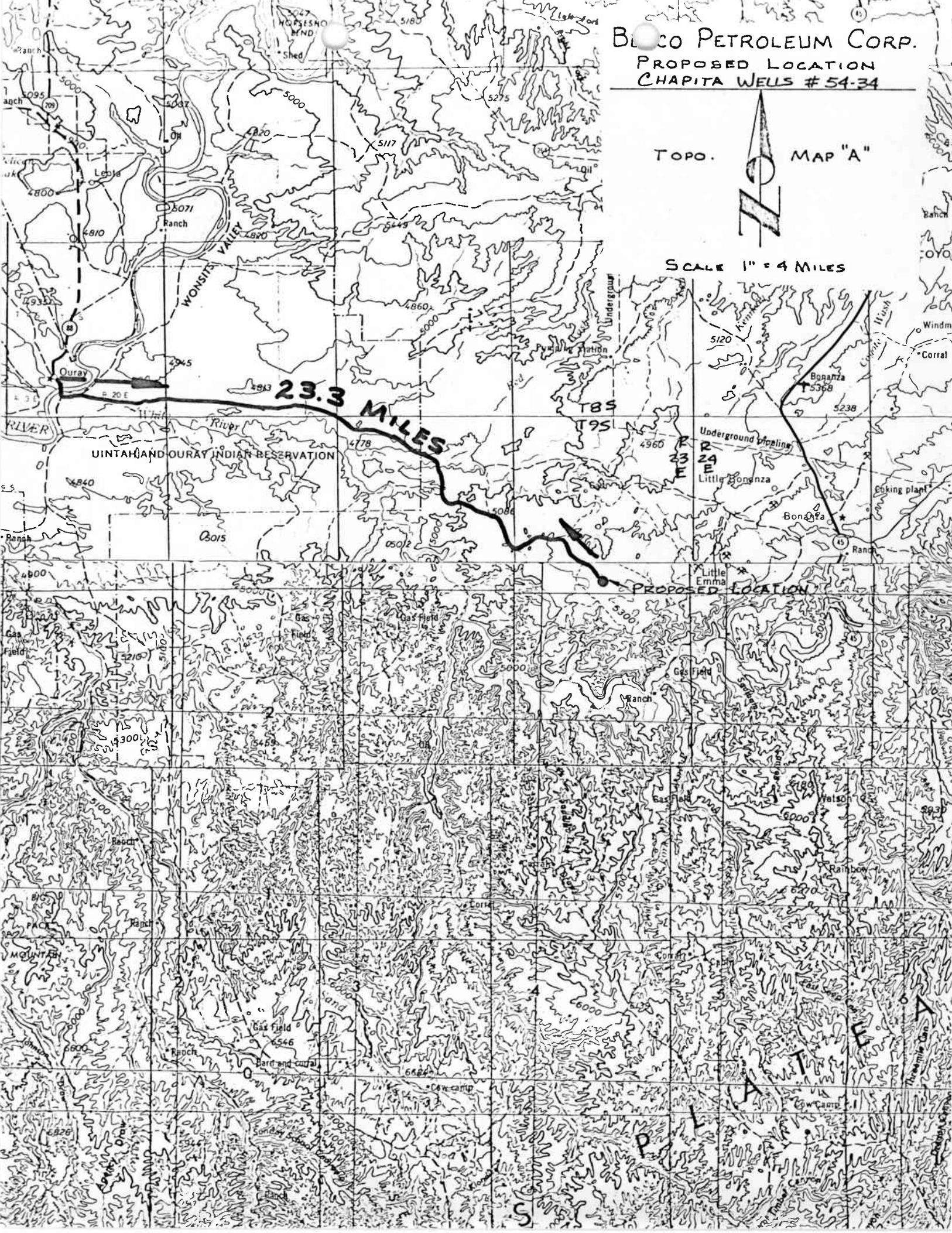
BELCO PETROLEUM CORP.
PROPOSED LOCATION
CHAPITA WELLS # 54-34

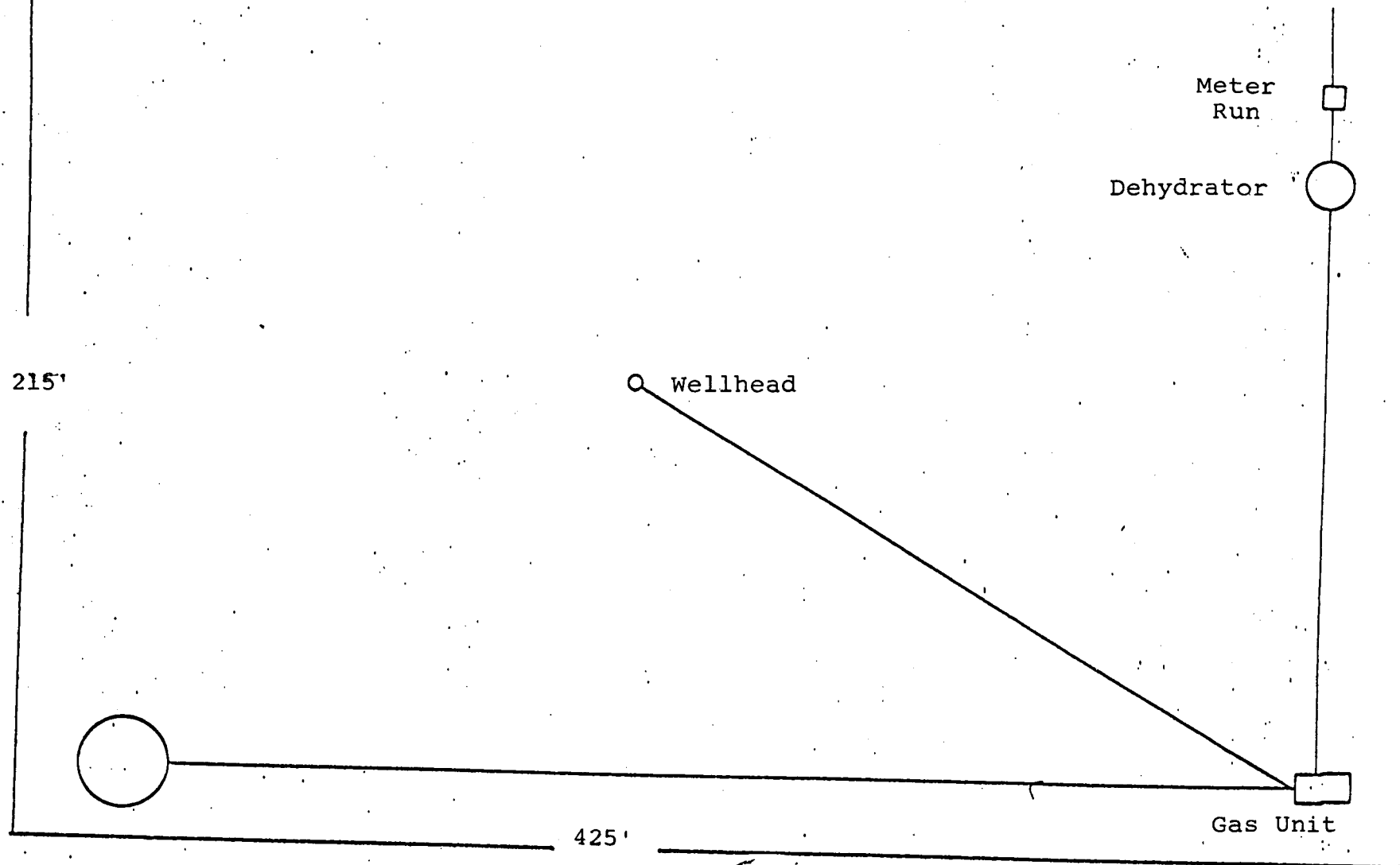
Торр.

MAP "A"



SCALE 1" = 4 MILES





Flow will be controlled by a positive manual choke. A high-low pressure safety shut down will be utilized.

DIAGRAM "A"

PRODUCTION FACILITIES

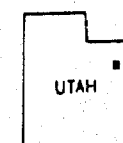
SCALE - 1" = 5000'



ROAD CLASSIFICATION

Light-duty

Unimproved dirt 4.2 4.2 4.2 4.2



QUADRANGLE LOCATION

OURAY, UTAH - 12.5 MILES

PROPOSED ACCESS
ROAD - 250' +/-

PROPOSED LOCATION
C.W. # 54:34

T9S
T10S

T4C
T4D



SCOTT M. MATHESON
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

CHARLES R. HENDERSON
Chairman

CLEON B. FEIGHT
Director

JOHN L. BELL
C. RAY JUVELIN
THADIS W. BOX
MAXILIAN A. FARBMAN
EDWARD T. BECK
E. STEELE McINTYRE

April 3, 1981

Belco Petroleum Corporation
P.O. Box X
Vernal, Utah 84078

Re: SEE ATTACHED SHEET

Gentlemen:

In reference to aboved mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not recieved any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. (If we do not hear from your company-within fifteen (15) days, we will assume you do not intend to drill these wells and action will be taken to terminate the application.) If you plan on drilling these location at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND, MINING

SANDY BATES
CLERK-TYPIST

ATTACHED SHEET

1. Well No. Chapita Wells #50-32
Sec. 32, T. 9S. R. 23E.
Uintah County, Utah

2. Well No. Chapita Wells #51-32
Sec. 32, T. 9S. R. 23E.
Uintah County, Utah

3. Well No. Chapita Wells #54-34
Sec. 34, T. 9S. R. 23E.
Uintah County, Utah

4. Well No. Chapita Wells #55-20
Sec. 20, T. 9S. R. 23E.
Uintah County, Utah

5. Well No. Chapita Wells #57-29
Sec. 29, T. 9S. R. 23E.
Uintah County, Utah

6. Well No. Duck Creek #19-16GR
Sec. 16, T. 9S. R. 20E.
Uintah County, Utah

7. Well No. Duck Creek #21-9
Sec. 9, T. 9S. R. 20E.
Uintah County, Utah

8. Well No. Duck Creek #22-9GR
Sec. 9, T. 9S. R. 20E.
Uintah County, Utah

9. Well No. Duck Creek #23-16GR
Sec. 16, T. 9S. R. 20E.
Uintah County, Utah

10. Well No. Duck Creek #25-17GR
Sec. 17, T. 9S. R. 20E.
Uintah County, Utah

11. Well No. Duck Creek #26-8GR
Sec. 8, T. 9S. R. 20E.
Uintah County, Utah

12. Well No. Duck Creek #27-9GR
Sec. 9, T. 9S. R. 20E.
Uintah County, Utah

13. Well No. Duck Creek #28-9GR
Sec. 9, T. 9S. R. 20E.
Uintah County, Utah

14. Well No. Duck Creek #29-9GR
Sec. 9, T. 9S. R. 20E.
Uintah County, Utah

15. Well No. Duck Creek 30-9GR
Sec. 9, T. 9S. R. 29E.
Uintah County, Utah

16. Well No. Duck Creek #34-17GR
Sec. 17, T. 9S. R. 20E.
Uintah County, Utah

17. Well No. Natural Duck #12-21GR
Sec. 21, T. 9S. R. 20E.
Uintah County, Utah

18. Well No. Natural Duck #13-21GR
Sec. 21, T. 9S. R. 20E.
Uintah County, Utah

19. Well NO. North Duck Creek 38-30GR
Sec. 30, T. 8S. R. 21E.
Uintah County, Utah

20. Well No. Stagecoach 16-26
Sec. 26, T. 8S. R. 21E.
Uintah County, Utah

Conservation Division
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104-3884

November 10, 1981

Belco Petroleum Corporation
P.O. Box X
Vernal, Utah 84078

Re: Return Application for
Permit to Drill
Well No. 57-29
Section 29, T. 9S, R. 23E.
Uintah County, Utah
Lease No. U-0337

Well No. 54-34
Section 34, T. 9S., R. 23E.
Uintah County, Utah
Lease No. U-37943

Gentlemen:

The Application for Permit to Drill the referenced wells were approved October 23, 1980 and September 16, 1980 respectively. Since that date no known activity has transpired at the approved locations. Under current District policy, application's for permit to drill are effective for a period of one year. In view of the foregoing this office is rescinding the approval of the referenced applications without prejudice. If you intend to drill at these locations on a future date a new application for permit to drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for these drill sites. Any surface disturbance associated with the approved locations of these wells is to be rehabilitated. A schedule for this rehabilitation must, then be submitted. Your cooperation in this matter is appreciated.

Sincerely,

(ORIG. SGD.) W. P. MARTENS

Sgt E. W. Gwynn
District Oil and Gas Supervisor

bcc: DCM, CR, O&G, Denver
BIM-Vernal
State Office (O&G)
State Office (BIM)
DCS-Vernal
APD Control

RAH/TM/tm

ATTACHED SHEET

1. Well No. Chapita Wells #50-32
Sec. 32, T. 9S. R. 23E.
Uintah County, Utah

~~TERMINATE 5-29-81~~

2. Well No. Chapita Wells #51-32
Sec. 32, T. 9S. R. 23E.
Uintah County, Utah

~~TERMINATE 5-29-81~~

3. Well No. Chapita Wells #54-34
Sec. 34, T. 9S. R. 23E.
Uintah County, Utah

~~USGS APPROVED UNTIL 9-16-81~~

4. Well No. Chapita Wells #55-20
Sec. 20, T. 9S. R. 23E.
Uintah County, Utah

~~USGS APPROVED UNTIL 10-23-81~~

5. Well No. Chapita Wells #57-29
Sec. 29, T. 9S. R. 23E.
Uintah County, Utah

~~USGS APPROVED UNTIL 10-23-81~~

6. Well No. Duck Creek #19-16GR
Sec. 16, T. 9S. R. 20E.
Uintah County, Utah

~~TERMINATE 4-24-81~~

7. Well No. Duck Creek #21-9
Sec. 9, T. 9S. R. 20E.
Uintah County, Utah

~~TERMINATE 4-24-81~~

8. Well No. Duck Creek #22-9GR
Sec. 9, T. 9S. R. 20E.
Uintah County, Utah

~~USGS APPROVED UNTIL 11-3-81~~

9. Well No. Duck Creek #23-16GR
Sec. 16, T. 9S. R. 20E.
Uintah County, Utah

~~USGS APPROVED UNTIL 11-3-81~~

10. Well No. Duck Creek #25-17GR
Sec. 17, T. 9S. R. 20E.
Uintah County, Utah

~~USGS APPROVED UNTIL 11-12-81~~

11. Well No. Duck Creek #26-8GR
Sec. 8, T. 9S. R. 20E.
Uintah County, Utah

~~USGS APPROVED UNTIL 10-22-80~~

12. Well No. Duck Creek #27-9GR
Sec. 9, T. 9S. R. 20E.
Uintah County, Utah

~~USGS APPROVED UNTIL 3-12-82~~

13. Well No. Duck Creek #28-9GR
Sec. 9, T. 9S. R. 20E.
Uintah County, Utah

~~USGS APPROVED UNTIL 3-12-82~~

14. Well No. Duck Creek #29-9GR
Sec. 9, T. 9S. R. 20E.
Uintah County, Utah

~~USGS APPROVED UNTIL 3-12-82~~

15. Well No. Duck Creek 30-9GR
Sec. 9, T. 9S. R. 29E.
Uintah County, Utah

~~USGS APPROVED UNTIL 3-12-82~~

16. Well No. Duck Creek #34-17GR
Sec. 17, T. 9S. R. 20E.
Uintah County, Utah

~~USGS APPROVED UNTIL 3-12-80~~

17. Well No. Natural Duck #12-21GR
Sec. 21, T. 9S. R. 20E.
Uintah County, Utah

SPUDED 4-3-81

18. Well No. Natural Duck #13-21GR
Sec. 21, T. 9S. R. 20E.
Uintah County, Utah

USGS APPROVAL SHOULD ARRIVE THIS WEEK

19. Well NO. North Duck Creek 38-30GR
Sec. 30, T. 8S. R. 21E.
Uintah County, Utah

~~USGS APPROVED UNTIL 11-3-81~~

20. Well No. Stagecoach 16-26
Sec. 26, T. 8S. R. 21E.
Uintah County, Utah

TERMINATED 10-7-80